=> d his

(FILE 'HOME' ENTERED AT 15:38:25 ON 03 NOV 1999)

FILE 'REGISTRY' ENTERED AT 15:38:28 ON 03 NOV 1999

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L1             STR
L2          50 S L1
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FILE 'CASREACT' ENTERED AT 15:40:01 ON 03 NOV 1999

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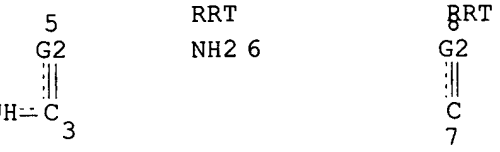
L3          38 S L1
L4             STR L1
L5           1 S L4
L6             STR L4
L7           2 S L6
L8        1851 S RESIN
L9         255 S SOLID SUPPORT
L10        847 S SOLID(2A)PHASE(2A)SYNTHES?
L11       2304 S L8-L10
L12          0 S L6 SSS SAM SUB=L11
L13            STR L6
L14          6 S L13
L15        150 S L13 FUL
L16          2 S L15 AND L11
```

I searched Casreact and combined the answer set with resin, solid support, etc.

=> d que l15

L13 STR

PRO RRT RRT



VAR G1=NH/O
VAR G2=O/S/N
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

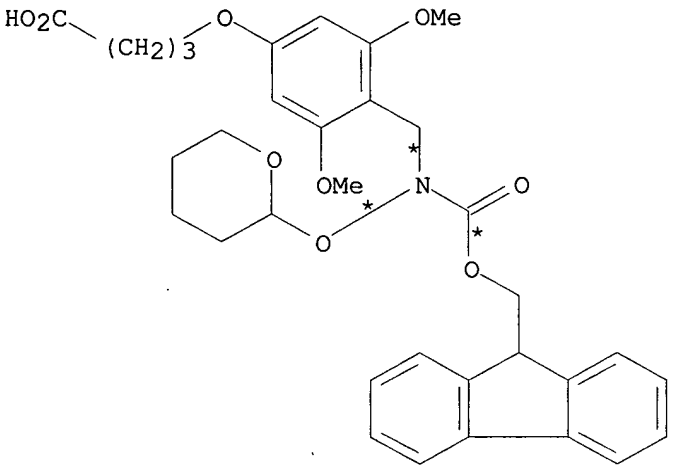
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE
L15 150 SEA FILE=CASREACT SSS FUL L13 (558 REACTIONS)

=> d fhit bib abs

L16 ANSWER 1 OF 2 CASREACT COPYRIGHT 1999 ACS

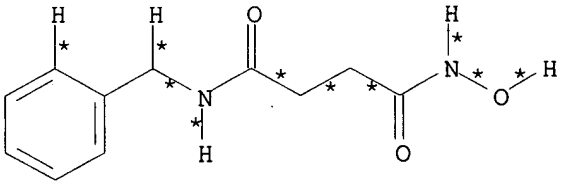
RX(7) OF 8 2 **X** ===> **AD**



X
resin-bound

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

(7)



AD

RX(7) RCT X **197304-25-9D**

STAGE(1)
RGT Y 110-89-4 Piperidine
SOL 68-12-2 DMF
Searched by John Dantzman 308-4488

STAGE(2)
RGT AE 108-30-5 Succinic anhydride
SOL 68-12-2 DMF

STAGE(3)
RGT AF **100-46-9** PhCH2NH2, AG 4584-49-0 1-Propanamine, 2-chloro-N,N-dimethyl-, hydrochloride
SOL 75-09-2 CH2Cl2

STAGE(4)
RGT AA 76-05-1 F3CCO2H, AB 7732-18-5 Water
SOL 75-09-2 CH2Cl2

STAGE(5)
RGT AB 7732-18-5 Water, AA 76-05-1 F3CCO2H
SOL 75-09-2 CH2Cl2
PRO AD **56439-40-8**

AN 129:4503 CASREACT
TI **Solid-phase synthesis** of hydroxylamine compounds, derivatives, and combinatorial libraries thereof
IN Patel, Dinesh; Nhu, Khehyong
PA Versicor, Inc., USA; Patel, Dinesh; Nhu, Khehyong
SO PCT Int. Appl., 98 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9818754	A1	19980507	WO 1997-US19481	19971027
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9854263	A1	19980522	AU 1998-54263	19971027

PRAI US 1996-29788 19961028
US 1997-47468 19970523
WO 1997-US19481 19971027
OS MARPAT 129:4503
AB A library comprising a plurality of hydroxylamine and/or hydroxylamine derivs. wherein the library is prepd. by prepg. a **solid support**-bound alkoxyamine, derivatizing the supported alkoxyamine, cleaving the derivatized alkoxyamine from the support, and removing the alkoxy protecting group, is claimed. Thus, 4-hydroxymethylphenoxy **resin** was brominated with PPh3.Br2 in CH2Cl2 to give 99% bromomethylphenoxy **resin**. This was treated with PhCH2ONH2 and K2CO3 in EtOAc/H2O to give benzyloxyamine **resin**, which was treated with PhCH2CH2COCl and 2,6-di-tert-butyl-4-methylpyridine in DMF to give N-acylated material. The latter was treated with CF3CO2H to afford PhCH2CH2CONHOCH2Ph, which was hydrogenated in MeOH over Pd/C to afford PhCH2CH2CONHOH.

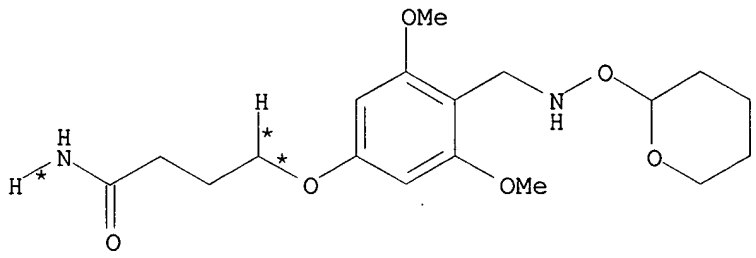
Searched by John Dantzman 308-4488

Searched by John Dantzman 308-4488

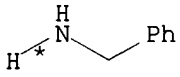
=> d fhit bib abs 2

L16 ANSWER 2 OF 2 CASREACT COPYRIGHT 1999 ACS

RX(7) OF 11 **X** + Y ===> **Z**

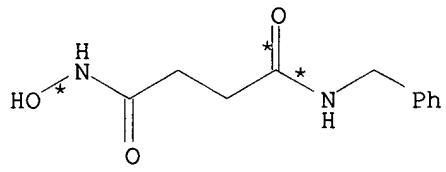


X
polymer bound



Y

(7) →



Z
YIELD 81%

RX(7) RCT X **197304-27-1D**

STAGE(1)
SOL 68-12-2 DMF, 108-30-5 Succinic anhydride

STAGE(2)
RCT Y 100-46-9
RGT AA 530-62-1 Diimidazolyl ketone
SOL 75-09-2 CH2Cl2

STAGE(3)
RGT R 76-05-1 F3CCO2H
SOL 7732-18-5 Water, 75-09-2 CH2Cl2
PRO Z **56439-40-8**

AN 127:318531 CASREACT
TI A New and Efficient **Solid Phase Synthesis** of Hydroxamic Acids
AU Ngu, Khehyong; Patel, Dinesh V.
CS Versicor Inc., Fremont, CA, 94555, USA
SO J. Org. Chem. (1997), 62(21), 7088-7089
Searched by John Dantzman 308-4488

CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
AB A new method for the **solid phase synthesis** (SPS) of hydroxamic acids proceeding through the intermediacy of N-tethered-O-protected alkoxyamine **resin** is described. The linker group, besides being an acid cleavable site for attachment of these mols. on **solid support**, also serves as a suitable nitrogen protecting group for the hydroxamate functionality. The current methodol. is strategically well suited for combinatorial synthesis of diverse hydroxamic acid based metalloenzyme inhibitors, as exemplified by the first SPS of CGS 27023A, a recently described orally active matrix metallo protease (MMP) inhibitor.

=> d his

(FILE 'HOME' ENTERED AT 14:49:00 ON 03 NOV 1999)

FILE 'HCAPLUS' ENTERED AT 14:49:19 ON 03 NOV 1999

L1	6	S	SIEV D?/AU
L2	396	S	SEMPLE ?/AU
L3	9	S	WEINHOUSE M?/AU
L4	0	S	L1 AND L2 AND L3
L5	408	S	L1-L4
L6	5	S	L5 AND RESIN

Inventor Search

=> d 1-5

L6 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 1999 ACS
AN 1999:617615 HCAPLUS
TI Novel protocol for the solid-phase synthesis of peptidyl and peptidomimetic P-argininal derivatives.
AU **Semple, J. Edward**; Gaudette, John A.; **Siev, Daniel V.**
CS Department of Medicinal Chemistry, Corvas International, Inc., San Diego, CA, 92121, USA
SO Book of Abstracts, 218th ACS National Meeting, New Orleans, Aug. 22-26 (1999), MEDI-241 Publisher: American Chemical Society, Washington, D. C. CODEN: 67ZJA5
DT Conference; Meeting Abstract
LA English

L6 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 1999 ACS
AN 1999:440760 HCAPLUS
DN 131:199967
TI Novel protocol for the solid-phase synthesis of peptidyl and peptidomimetic P1-argininal derivatives
AU **Siev, Daniel V.**; Gaudette, John A.; **Semple, J. Edward**
CS Department of Medicinal Chemistry, Corvas International, Inc., San Diego, CA, 92121, USA
SO Tetrahedron Lett. (1999), 40(28), 5123-5127 CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 131:199967

L6 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 1999 ACS
AN 1996:97083 HCAPLUS
DN 124:260932
TI Imidazole libraries on solid support
AU Sarshar, Sepehr; **Siev, Daniel**; Mjalli, Adnan M. M.
CS Ontogen Corp., Karlovy vary, CA, 92009, USA
SO Tetrahedron Lett. (1996), 37(6), 835-8 CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English

L6 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 1999 ACS
AN 1996:10631 HCAPLUS
DN 124:175550
TI Synthesis of NH-acyl-.alpha.-amino amides on Rink **resin**: inhibitors of the hematopoietic protein tyrosine phosphatase (HePTP)
AU Cao, Xiaodong; Moran, Edmund J.; **Siev, Daniel**; Lio, Anna; Ohashi, Cara; Majalli, Adnan M. M.
CS Ontogen Corp., Karlovy vary, CA, 92009, USA
SO Bioorg. Med. Chem. Lett. (1995), 5(24), 2953-8 CODEN: BMCLE8; ISSN: 0960-894X
DT Journal
LA English

L6 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 1999 ACS
Searched by John Dantzman 308-4488

AN 1987:167153 HCAPLUS
DN 106:167153
TI Wave absorption in piezoceramic-polymer composites
AU **Semple, A. E.**; Pilgrim, S. M.; Thompson, W., Jr.; Newnham, R. E.
CS Pennsylvania State Univ., University Park, PA, 16802, USA
SO Mater. Sci. Res. (1986), 20(Tailoring Multiphase Compos. Ceram.), 455-63
CODEN: MTSRAY; ISSN: 0076-5201
DT Journal
LA English

=> d bib abs hitstr 37

L23 ANSWER 37 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1987:423709 HCAPLUS
DN 107:23709
TI Calcitonin related peptide derivatives
IN Noda, Toshiharu; Fujii, Nobutaka; Morita, Kaoru; Hori, Masayuki
PA Toyo Jozo Co., Ltd., Japan
SO Eur. Pat. Appl., 26 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 212432	A2	19870304	EP 1986-110829	19860805
	EP 212432	A3	19890125		
	EP 212432	B1	19920506		
	R: DE, FR, GB, IT				
	JP 62129297	A2	19870611	JP 1986-173395	19860723
	US 4743677	A	19880510	US 1986-893267	19860805
	ES 2000602	A6	19880301	ES 1986-959	19860808
PRAI	JP 1985-175340		19850809		

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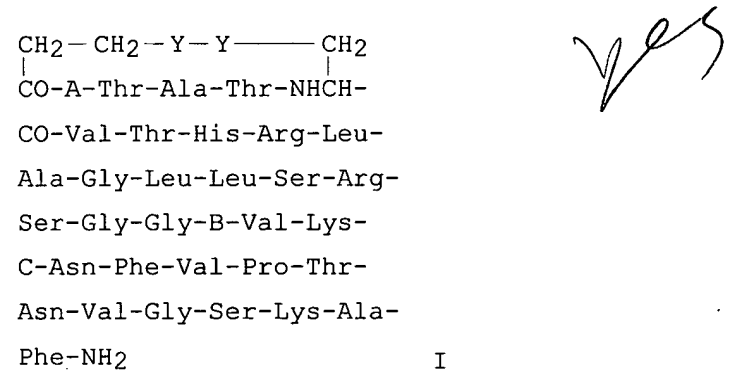

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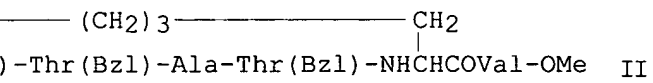


II

AB The title compds. (I; Y = S, CH2; A = Asp, Asn; B = Val, Met; C = Asn, Ser) or their salts, useful as medicines or clin. diagnostic aids for bone metab. and the central nervous system (no data), are prepd. I (Y = CH2, A = Asp, B = Val, C = Asn) was prepd. by solid-phase synthesis on a p-methylbenzhydrylamine **resin** via the cyclic peptide II (Bzl = benzyl).

IT **98748-34-6P 98748-38-0P 98748-40-4P**
98748-41-5P 98748-42-6P 98748-43-7P

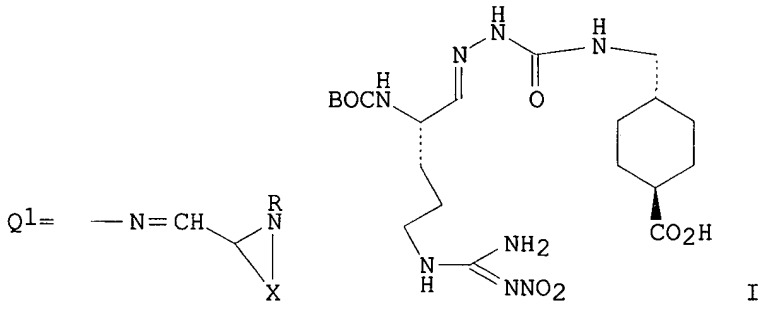
Searched by John Dantzman 308-4488

=> d bib abs hitstr 33

L23 ANSWER 33 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1994:135141 HCAPLUS
DN 120:135141
TI Preparation of semicarbazone and semicarbazide amino acid aldehyde supports for automated synthesis of peptide analogs
IN Webb, Thomas Roy
PA Corvas International Inc., USA
SO PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9312076	A1	19930624	WO 1991-US9388	19911213
	W: AU, CA, FI, JP, KR, NO				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
	AU 9213390	A1	19930719	AU 1992-13390	19911213
PRAI	WO 1991-US9388		19911213		

OS MARPAT 120:135141
GI



I

AB HO2CACH2NHCONHZ [A = C2-15 hydrocarbylene; Z = NHR, N:CHCHR1NHR, Q1; R = protecting group; R1 = H, (substituted) alkyl, cycloalkyl, aryl, aralkyl; X = (substituted) C3-12 alkylene], were prepd. Thus, trans-4-aminomethylcyclohexanecarboxylic acid was elaborated to semicarbazone deriv I in several steps. This was coupled to methylbenzhydrylamine **resin** using N-methylmorpholine/BOP reagent in DMF and the resulting SAAA (semicarbazone amino acid aldehyde) support was used to prep. BOC-D-Leu-Pro-Arg-H, BOC-D-Phe-Pro-Arg-H, etc.

IT **139976-34-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and redn. of, in **solid phase synthesis** of peptide aldehydes)

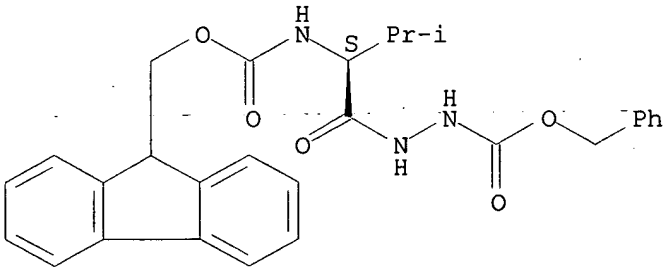
RN 139976-34-4 HCAPLUS
CN Carbamic acid, [(1S)-4-[[imino(nitroamino)methyl]amino]-1-[(methoxymethylamino)carbonyl]butyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Searched by John Dantzman 308-4488

=> d bib abs hitstr 31

L23 ANSWER 31 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1994:218523 HCAPLUS
DN 120:218523
TI Synthesis of azapeptides by the Fmoc/tert-butyl/polyamide technique
AU Quibell, Martin; Turnell, William G.; Johnson, Tony
CS MRC Lab. Mol. Biol., Cambridge, CB2 2QH, UK
SO J. Chem. Soc., Perkin Trans. 1 (1993), (22), 2843-9
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
OS CASREACT 120:218523
AB A new synthesis of azapeptides for use in the study of a proteolytic enzyme assocd. with Alzheimer's disease is described. The method utilizes fluoren-9-ylmethoxycarbonyl (Fmoc) amino acid carbazates and hydrazides in the Fmoc/tert-butyl/polyamide technique. The prepn. of these compds. is presented. Reaction of Fmoc-amino acid hydrazides with an appropriate aldehyde, followed by redn., gave fully protected amino acid carbazate dipeptide synthons. These derivs. were used to prep. aza amino acid peptide analogs by reaction with a **resin**-bound amino group, activated with bis-2,4-dinitrophenyl carbonate in the presence of a base. With this activation of the amino group, hydantoins are formed in a major side reaction, but the cyclization could be virtually eliminated by omission of the base from the activation procedure. Upon final trifluoroacetic acid-mediated cleavage of the azapeptide, trifluoroacetylation of the N-terminal serine residue was obsd.
IT **154130-34-4P 154130-35-5P 154130-36-6P 154130-37-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(intermediate in prepn. of protected azadipeptide building block for **solid-phase** peptide **synthesis**)
RN 154130-34-4 HCAPLUS
CN Hydrazinecarboxylic acid, 2-[2-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-3-methyl-1-oxobutyl]-, phenylmethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



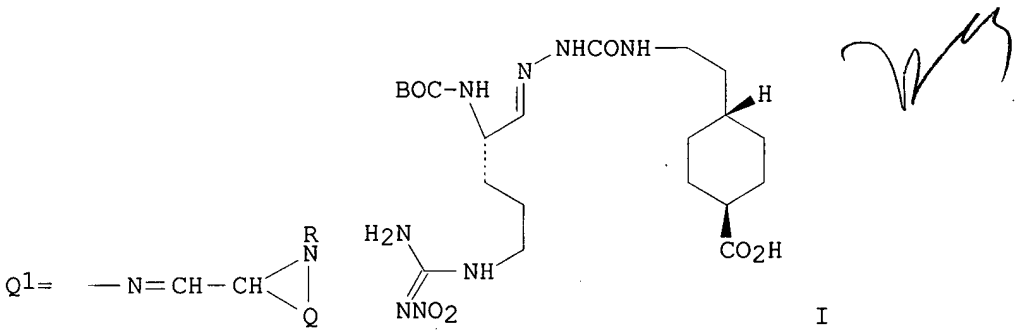
RN 154130-35-5 HCAPLUS
CN Hydrazinecarboxylic acid, 2-[6-[[(1,1-dimethylethoxy)carbonyl]amino]-2-

=> d bib abs hitstr 30

L23 ANSWER 30 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1994:580233 HCAPLUS
DN 121:180233
TI Reagents for automated synthesis of peptide aldehydes.
IN Webb, Thomas R.
PA Corvas, Inc., USA
SO U.S., 18 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5283293	A	19940201	US 1990-627753	19901214
	US 5367072	A	19941122	US 1991-807474	19911213

PRAI US 1990-627753 19901214
OS MARPAT 121:180233
GI



I

AB XCOANHCONHZ [A = hydrocarbyl; Z = NHR, N:CHCHR1NHR, Q1; R = protecting group; R1 = H, (substituted) alkyl, cycloalkyl, aryl, aralkyl; Q = (substituted) alkylene; X = NHSp, OSp, CH2Sp; Sp = insol. **resin** support], were prepd. Thus, nitroarginal semicarbazone deriv I was prepd.
and coupled to methylbenzhydrylamine **resin**; the **resin** was used in solid phase prepn. of BOC-D-Leu-Pro-Arginal, etc.
IT **71413-14-4P 139976-26-4P 139976-27-5P 139976-28-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, as intermediate for linker group for **solid phase** peptide aldehyde **synthesis**)
RN 71413-14-4 HCAPLUS
CN Carbamic acid, [(1S)-1-formyl-4-[[imino(nitroamino)methyl]amino]butyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

=> d bib abs hitstr 28

L23 ANSWER 28 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1995:984982 HCAPLUS
DN 124:176894
TI Solid-phase synthesis of a fucosylated glycopeptide of human factor IX with a fucose-.alpha.-(1.fwdarw.O)-serine linkage
AU Peters, Stefan; Lowary, Todd I.; Hindsgaul, Ole; Meldal, Morten; Bock, Klaus
CS Department Chemistry, Carlsberg Laboratory, Copenhagen Valby, DK-2500, Den.
SO J. Chem. Soc., Perkin Trans. 1 (1995), (23), 3017-22
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
AB The chem. synthesis of protected glycopeptide Ac-Pro-Cys(Acm)-Leu-Asn-Gly-Gly-Ser(Ac3-.alpha.-L-Fuc)-Cys(Acm)-Lys-Asp-Asp-NH2 (I; Acm = acetamidomethyl), with L-fucose directly linked to the hydroxy group of L-serine is reported. Two building blocks contg. a protected and an unprotected fucose residue .alpha.-glycosidically linked to Fmoc-Ser-OH (Fmoc = 9-fluorenylmethoxycarbonyl) were prepd. and used in the synthesis of I. Both building blocks were completely compatible with the std. Fmoc-based solid-phase peptide synthesis protocol and furthermore that OH protection of the carbohydrate is necessary only during the final acid treatment for cleavage of the glycopeptide from the **resin**.
IT **173777-50-9P**
RL: BYP (Byproduct); PREP (Preparation)
(**solid-phase synthesis** of a fucosylated glycopeptide of human factor IX with a fucose-serine linkage)
RN 173777-50-9 HCAPLUS
CN L-.alpha.-Asparagine, N2-[N-[N2-[S-[(acetylamino)methyl]-N-[N-[N-[N-[N-[N-[S-[(acetylamino)methyl]-N-(1-acetyl-L-prolyl)-L-cysteinyl]-L-leucyl]-L-.alpha.-aspartyl]glycyl]glycyl]-O-(6-deoxy-.alpha.-L-galactopyranosyl)-L-seryl]-L-cysteinyl]-L-lysyl]-L-.alpha.-aspartyl]-, 4''-hydrazide (9CI) (CA INDEX NAME)

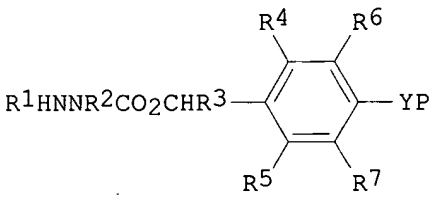
Absolute stereochemistry.

=> d bib abs hitstr 26

L23 ANSWER 26 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1996:190883 HCAPLUS
DN 124:233161
TI Preparation of **resin** supports for use in solid phase synthesis of peptide hydrazides.
IN Coughlin, Daniel J.
PA Cytogen Corp., USA
SO PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9534314	A1	19951221	WO 1995-US7462	19950613
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KE, KG, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TT, UA, UZ, VN				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9529021	A1	19960105	AU 1995-29021	19950613
PRAI	US 1994-259775		19940614		
	WO 1995-US7462		19950613		

OS MARPAT 124:233161
GI



I

AB Title compds. (I; P = solid phase polymer support; Y = Ph, alkyl, aryl, akoxy, aryloxy, alkylamino, arylamino, alkylthio, arylthio; R1, R2 = H, alkyl; R3 = H, alkyl, aryl, nitroaryl; R4 = OR8, NMe2; R8 = alkyl; R5-R7 = H, OMe, NMe2, alkyl, aryl), were prepd. Thus, sasrin was derivatized with Ph chloroformate and hydrazine and the resulting hydrazide sasrin **resin** was used to prep. branched and linear peptide hydrazides.
IT **174800-73-8DP**, sasrin **resin**-bound **174800-74-9DP**, sasrin **resin**-bound **174800-75-0DP**, sasrin **resin**-bound **174800-76-1DP**, sasrin **resin**-bound **174800-77-2DP**, sasrin **resin**-bound **174800-82-9DP**, **resin**-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of **resin** supports for use in **solid**

=> d bib abs hitstr 25

L23 ANSWER 25 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1996:237461 HCAPLUS
DN 124:290274
TI Solid phase synthesis of diketopiperazines (cyclodipeptides).
IN Campbell, David; Gallop, Mark A.; Gordon, Eric M.; Look, Gary C.; Patel, Dinesh; Szardenings, Anna Katrin
PA Affymax Technologies N.V., Neth.
SO PCT Int. Appl., 100 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9600391	A1	19960104	WO 1995-US7964	19950623
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	WO 9535278	A1	19951228	WO 1995-US7878	19950622
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9528711	A1	19960119	AU 1995-28711	19950623

PRAI US 1994-265578 19940623
US 1995-393318 19950222
WO 1995-US7878 19950622
US 1994-264136 19940622
US 1994-354309 19941212
WO 1995-US7964 19950623

AB A library of diverse diketopiperazines comprising a plurality of solid supports having a plurality of surface-bound diketopiperazines, wherein the diketopiperazines bound to each of the solid supports are substantially homogeneous and have a compn. substantially different from diketopiperazines bound to selected other supports, are claimed. Thus, TentaGel S **resin** functionalized with Knorr linker was coupled with FMOC-Glu(OMe)-OH using BOP/DIEA in DMF followed by deprotection, coupling with FMOC-Gly, and deprotection. Heating the **resin** -bound dipeptide in MeOH/Et3N gave **resin**-bound diketopiperazine product, which was treated with TFA/H2O to give 61% cyclo(Gln-Gly).

IT **175452-67-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(**solid phase synthesis** of diketopiperazines)

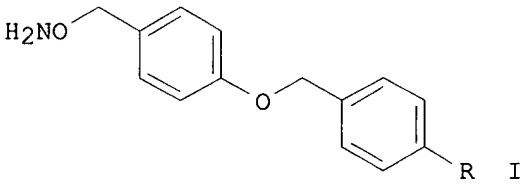
RN 175452-67-2 HCAPLUS
CN 2-Piperazinepropanamide, N-hydroxy-1-(3-methylbutyl)-3,6-dioxo-5-

=> d bib abs hitstr 23

L23 ANSWER 23 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1996:632144 HCAPLUS
DN 125:276589
TI Synthesis of hydroxamic acid derivatives using solid supports functionalized with (protected) hydroxylamine.
IN Floyd, Christopher David; Lewis, Christopher Norman
PA British Biotech Pharmaceuticals Limited, UK
SO PCT Int. Appl., 47 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9626223	A1	19960829	WO 1996-GB428	19960226
	W: JP, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 811019	A1	19971210	EP 1996-903152	19960226
	EP 811019	B1	19990407		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE				
	JP 11500620	T2	19990119	JP 1996-525514	19960226
	AT 178618	E	19990415	AT 1996-903152	19960226
	US 5932695	A	19990803	US 1997-809499	19970324
PRAI	GB 1995-3749		19950224		
	WO 1996-GB428		19960226		

GI



I

AB Solid phase reaction components substantially insol. in aq. or org. reaction media of the formulas P1NHOR or RHNOP2 (P1, P2 = H, protecting group; R = solid substrate) wherein the bond to the substrate is cleavable under acid conditions or by photolysis, are claimed. Such components are useful in the solid phase synthesis of, for example, compds. which are matrix metalloproteinase inhibitors. Thus, supported hydroxylamine I; R = copoly(styrene-1% divinylbenzene), prepd. from Wang **resin** by treatment with N-hydroxyphthalimide/Ph3P/DEAD followed by hydrazinolysis, was used in solid phase synthesis of Z-Pro-Leu-Ala-NHOH.

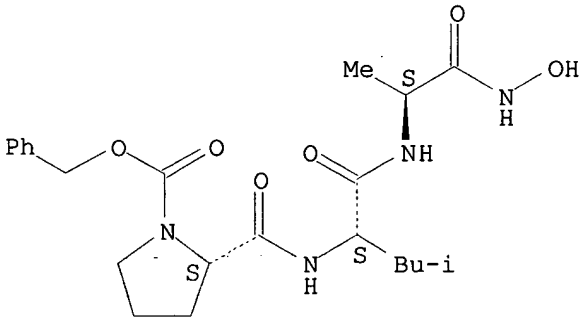
IT **174857-80-8P 174857-88-6P 182297-48-9P**
182297-49-0P 182297-50-3P 182297-51-4P
182297-52-5P 182297-53-6P 182297-54-7P
182297-55-8P 182297-56-9P 182297-57-0P

Searched by John Dantzman 308-4488

=> d bib abs hitstr 21

L23 ANSWER 21 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1996:668769 HCAPLUS
DN 126:31626
TI A method for the synthesis of hydroxamic acids on solid phase
AU Floyd, Christopher D.; Lewis, Christopher N.; Patel, Sanjay R.; Whittaker, Mark
CS British Biotech Pharm. Ltd., Oxford, OX4 5LY, UK
SO Tetrahedron Lett. (1996), 37(44), 8045-8048
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier
DT Journal
LA English
AB Wang **resin** was modified using a Mitsunobu reaction to give **resin** bound O-hydroxylamine. This **resin** was acylated and the adduct cleaved from the **resin** by TFA to afford hydroxamic acids. A series of tripeptides and sulfonamido hydroxamic acids which act as inhibitors of metalloproteinases have been prepd. **Resins** more sensitive to acid cleavage can also be modified to simplify the work-up procedure.
IT **123984-00-9P 184775-22-2P 184775-23-3P**
184775-24-4P 184775-25-5P 184775-26-6P
184775-27-7P 184775-28-8P 184775-29-9P
184775-30-2P 184775-31-3P 184775-32-4P
184775-33-5P 184775-34-6P 184775-35-7P
184775-36-8P 184775-37-9P 184775-38-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(**solid phase synthesis** of peptidyl hydroxamic acids)
RN 123984-00-9 HCAPLUS
CN L-Alaninamide, 1-[(phenylmethoxy)carbonyl]-L-prolyl-L-leucyl-N-hydroxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

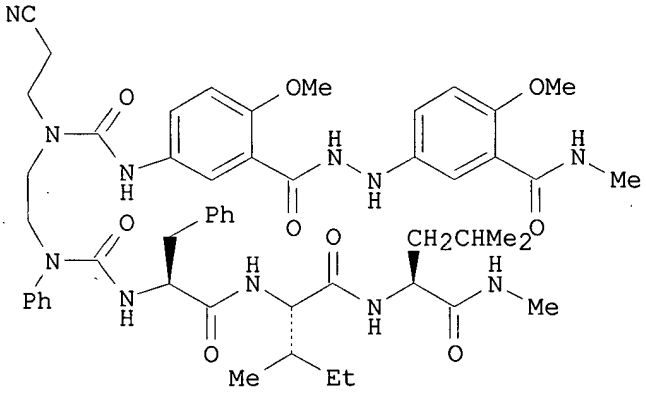


RN 184775-22-2 HCAPLUS
CN L-Norleucinamide, 1-[(phenylmethoxy)carbonyl]-L-prolyl-(.alpha.S)-.alpha.-aminobenzenebutanoyl-N-hydroxy- (9CI) (CA INDEX NAME)

Searched by John Dantzman 308-4488

=> d bib abs hitstr 18

L23 ANSWER 18 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1997:528751 HCAPLUS
DN 127:176699
TI Solid-Phase Synthesis of Artificial .beta.-Sheets
AU Holmes, Darren L.; Smith, Eric M.; Nowick, James S.
CS Department of Chemistry, University of California, Irvine, CA, 92697-2025,
USA
SO J. Am. Chem. Soc. (1997), 119(33), 7665-7669
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
GI



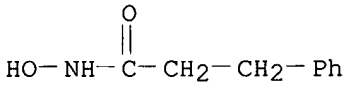
I

AB The solid-phase syntheses of artificial .beta.-sheets, e.g. I, which mimic the structure and hydrogen-bonding patterns of protein .beta.-sheets is described. In these compds., mol. templates induce .beta.-sheet structures in attached peptide strands. The templates consist of di- and triurea derivs., which hold peptide and peptidomimetic strands in proximity, and .beta.-strand mimics, which hydrogen bond to the peptide strands. The syntheses involve constructing the "lower" peptide strand on Merrifield **resin**, attaching the di- or triamine portions of the di- or triurea templates, connecting the "upper" peptide and peptidomimetic strands, and cleaving the resulting artificial .beta.-sheets from the **resin**. The artificial .beta.-sheets were prepd. in 8-13 steps from leucine Merrifield in 33-67% overall yield.

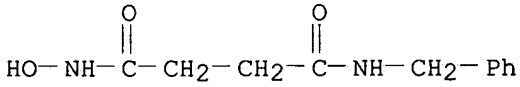
IT **3619-17-8P**, Isobutyric hydrazide **194025-94-0P**
194025-95-1P 194025-96-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(**solid-phase synthesis** of artificial

=> d bib abs hitstr 17

L23 ANSWER 17 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1997:684665 HCAPLUS
DN 127:318531
TI A New and Efficient Solid Phase Synthesis of Hydroxamic Acids
AU Ngu, Khehyong; Patel, Dinesh V.
CS Versicor Inc., Fremont, CA, 94555, USA
SO J. Org. Chem. (1997), 62(21), 7088-7089
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 127:318531
AB A new method for the solid phase synthesis (SPS) of hydroxamic acids proceeding through the intermediacy of N-tethered-O-protected alkoxyamine **resin** is described. The linker group, besides being an acid cleavable site for attachment of these mols. on solid support, also serves as a suitable nitrogen protecting group for the hydroxamate functionality.
The current methodol. is strategically well suited for combinatorial synthesis of diverse hydroxamic acid based metalloenzyme inhibitors, as exemplified by the first SPS of CGS 27023A, a recently described orally active matrix metallo protease (MMP) inhibitor.
IT **17698-11-2P 56439-40-8P 192570-31-3P 197304-28-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(**solid phase synthesis** of hydroxamic acids)
RN 17698-11-2 HCAPLUS
CN Benzenepropanamide, N-hydroxy- (9CI) (CA INDEX NAME)



RN 56439-40-8 HCAPLUS
CN Butanediamide, N-hydroxy-N'-(phenylmethyl)- (9CI) (CA INDEX NAME)

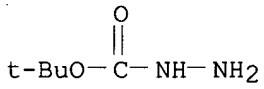


RN 192570-31-3 HCAPLUS
CN Butanamide, N-hydroxy-2-[[(4-methoxyphenyl)sulfonyl](3-pyridinylmethyl)amino]-3-methyl-, (2S)- (9CI) (CA INDEX NAME)

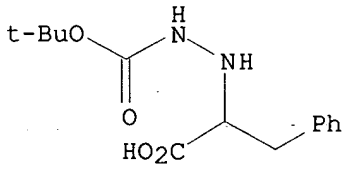
Absolute stereochemistry.

=> d bib abs hitstr 13

L23 ANSWER 13 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1998:426680 HCAPLUS
DN 129:161529
TI Solid phase synthesis of 1-aminohydantoin libraries
AU Wilson, Lawrence J.; Li, Min; Portlock, David E.
CS Procter and Gamble Pharmaceuticals, Health Care Research Center, Mason, OH, 45040, USA
SO Tetrahedron Lett. (1998), 39(29), 5135-5138
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
AB The solid support synthesis of a series of 1-aminohydantoins based on a diverse set of hydrazino amino acids, aldehydes, and amines is described. The method involves the construction of **resin** attached hydrazino acid precursors, followed by subsequent derivatization, and then cyclizative cleavage off the **resin**. Overall yields vary per example between 15 and 60%, and the samples are suitable for biol. evaluations without further purifn.
IT **870-46-2**, tert-Butoxycarbonylhydrazine **14381-08-9** **54600-94-1** **211107-24-3** **211107-25-4** **211107-29-8**
RL: RCT (Reactant)
(**solid phase synthesis** of 1-aminohydantoin libraries)
RN 870-46-2 HCAPLUS
CN Hydrazinecarboxylic acid, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 14381-08-9 HCAPLUS
CN Hydrazinecarboxylic acid, 2-(1-carboxy-2-phenylethyl)-, 1-(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

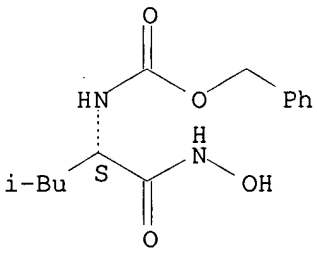


RN 54600-94-1 HCAPLUS
CN Hydrazinecarboxylic acid, 2-(1-carboxyethyl)-, 1-(1,1-dimethylethyl) ester
(9CI) (CA INDEX NAME)

=> d bib abs hitstr 12

L23 ANSWER 12 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1998:459963 HCAPLUS
DN 129:161827
TI Solid-phase synthesis of hydroxamic acids
AU Dankwardt, Sharon M.
CS Inflammatory Disease Unit, Parallel Synthesis Group, Roche Bioscience, Palo Alto, CA, 94304, USA
SO Synlett (1998), (7), 761
CODEN: SYNLES; ISSN: 0936-5214
PB Georg Thieme Verlag
DT Journal
LA English
AB The solid-phase synthesis of amino hydroxamic acids is presented. Carboxy-linked, polymer-supported N-carbobenzoxy-protected amino acids were displaced from the **resin** with aq. NH2OH to provide the corresponding hydroxamic acids.
IT **66179-55-3P 73048-81-4P 76960-28-6P**
88144-07-4P 107145-27-7P 160056-97-3P
211232-25-6P 211232-26-7P 211232-27-8P
211232-28-9P 211232-29-0P 211232-30-3P
211232-31-4P 211232-32-5P 211232-33-6P
211232-34-7P 211232-35-8P 211232-36-9P
211232-37-0P 211232-38-1P 211232-39-2P
211232-40-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(**solid-phase synthesis** of amino hydroxamic acids)
RN 66179-55-3 HCAPLUS
CN Carbamic acid, [(1S)-1-[(hydroxyamino)carbonyl]-3-methylbutyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 73048-81-4 HCAPLUS
CN Carbamic acid, [(1S)-2-(hydroxyamino)-2-oxo-1-(phenylmethyl)ethyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

=> d bib abs hitstr 11

L23 ANSWER 11 OF 52 HCAPLUS COPYRIGHT 1999 ACS
AN 1998:485029 HCAPLUS
DN 129:122459
TI Solid phase synthesis of aldehydes, ketones, oximes, amines and hydroxamic acids
IN Salvino, Joseph M.; Morton, George C.; Mason, Helen J.; Labaudiniere, Richard F.
PA Rhone-Poulenc Rorer Pharmaceuticals Inc., USA
SO PCT Int. Appl., 98 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9829376	A1	19980709	WO 1997-US23920	19971217
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9857199	A1	19980731	AU 1998-57199	19971217
	EP 946478	A1	19991006	EP 1997-953458	19971217
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO				
	ZA 9711453	A	19980914	ZA 1997-11453	19971219
	WO 9931491	A1	19990624	WO 1998-US26512	19981214
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9925569	A1	19990705	AU 1999-25569	19981214
	NO 9902896	A	19990813	NO 1999-2896	19990614

PRAI US 1996-32453 19961219
US 1996-33881 19961224
US 1996-PV32453 19961219
US 1996-PV33881 19961224
WO 1997-US23920 19971217
US 1998-90558 19980624
US 1998-90563 19980624
US 1998-PV90558 19980624
US 1998-PV90563 19980624
WO 1998-US26512 19981214
OS CASREACT 129:122459
AB Title compds., e.g. R1COR2 (R1, R2 = aryl, aliphatyl), were prepd. by